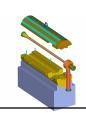
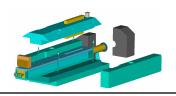


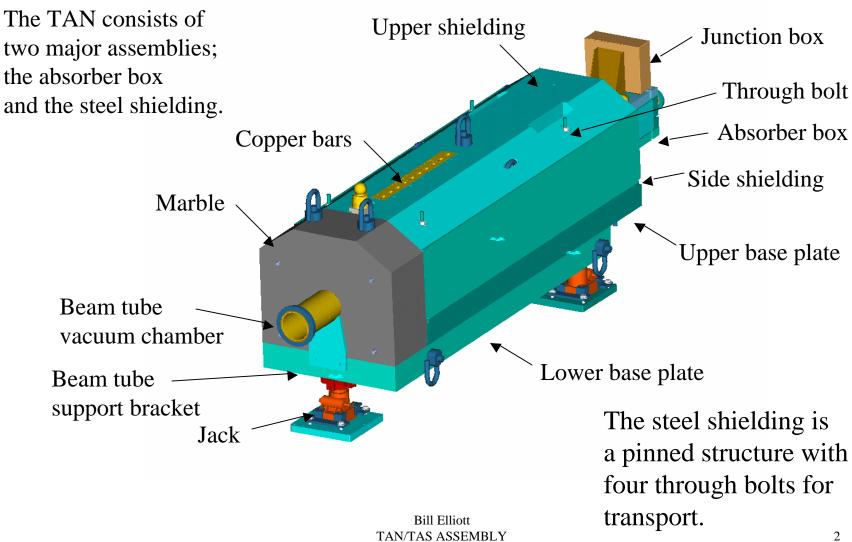
Neutral Beam Absorber for LHC (TAN) ASSEMBLY

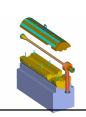
B. Elliott



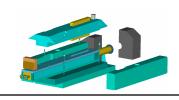
TAN Nomenclature

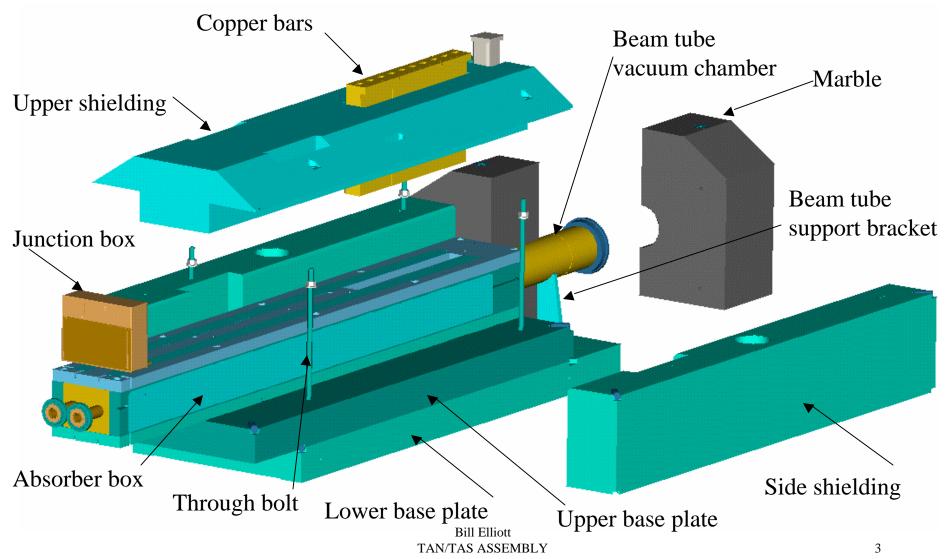






TAN Nomenclature



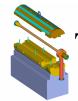




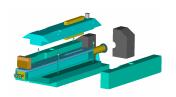
THE VACUUM TUBE CONTAINS TWO COUNTER-ROTATING BEAMS. THE BEAMS TRANSITION FROM ONE BEAM IN EACH TUBE TO TWO BEAM IN THE SAME TUBE.

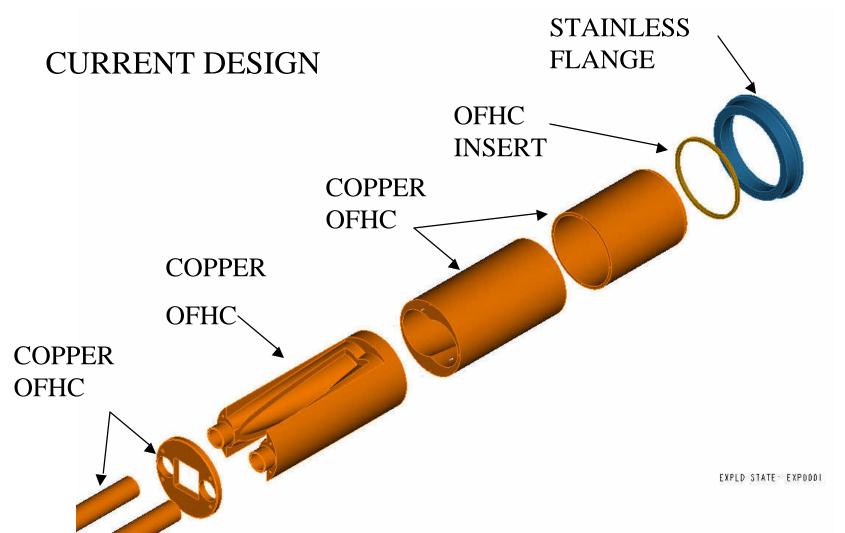
THE TWO COUNTER-ROTATING BEAMS INTERSECT 140 METERS AWAY

THERE IS A MIRROR
IMAGE SYSTEM ON THE
OPPOSITE SIDE OF THE
INTERSECTION POINT



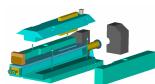
TAN VACUUM DESIGN -MATERIALS

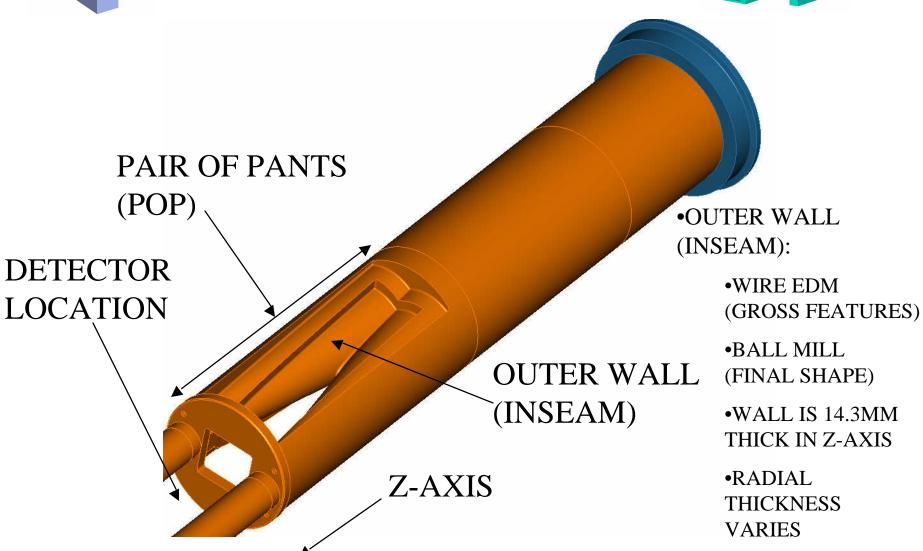






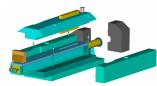
TAN VACUUM DESIGN -OUTER WALL

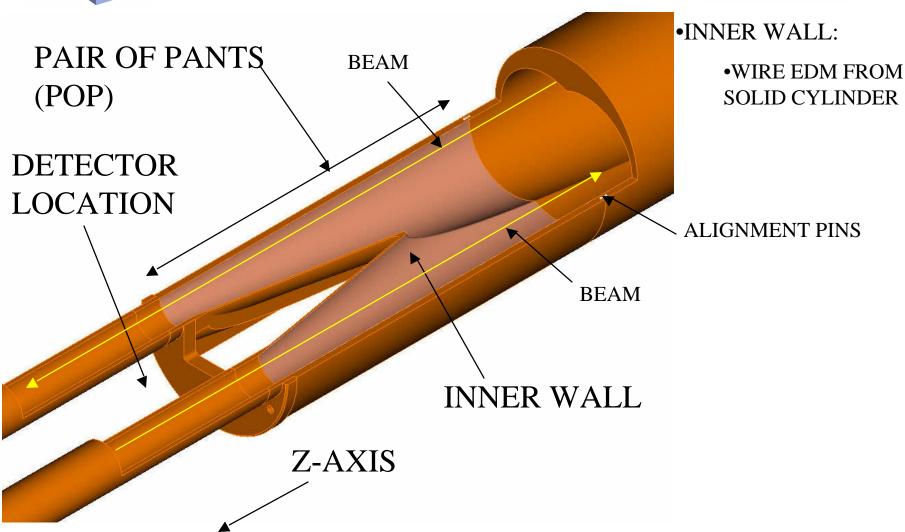






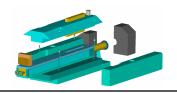
TAN VACUUM DESIGN -INNER WALL

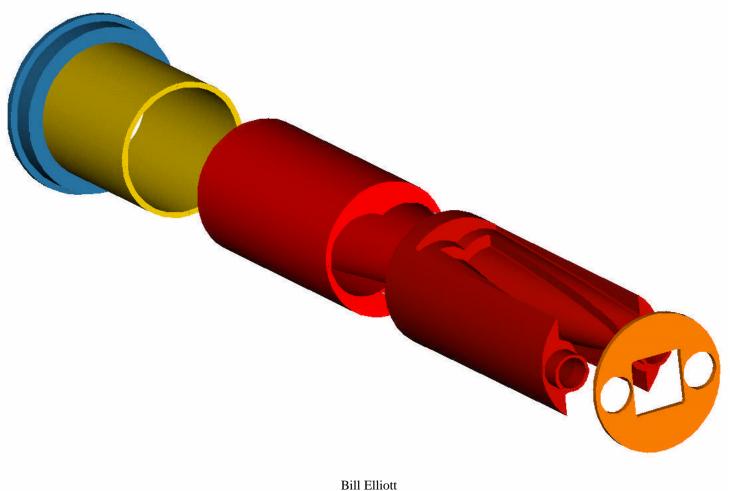


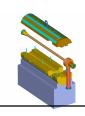




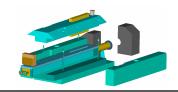
Vacuum Chamber Assembly

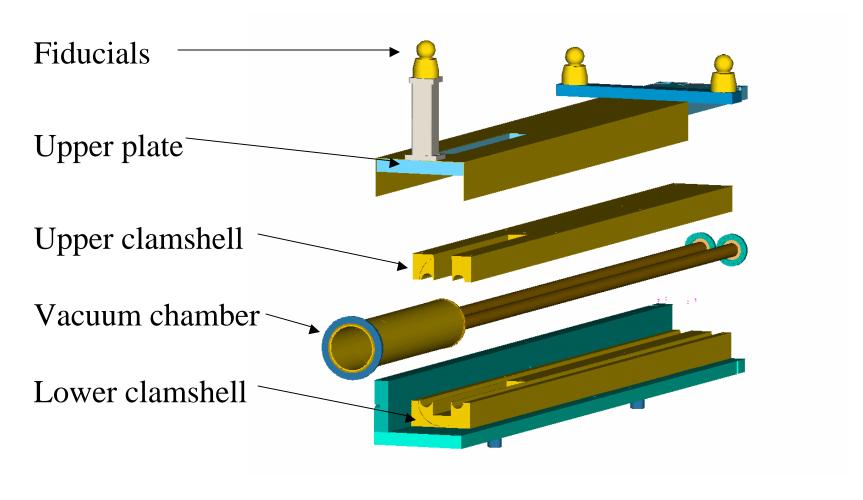


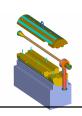




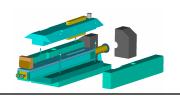
Absorber Box Assembly



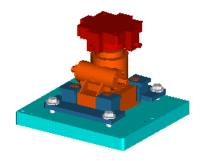


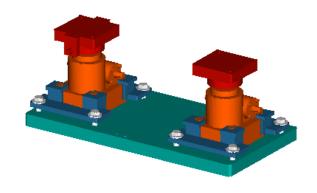


TAN Jack Installation



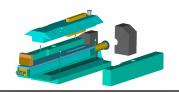
- Survey location
- Install jack plates
- Install jacks(Note jack clips)
- Adjust jacks

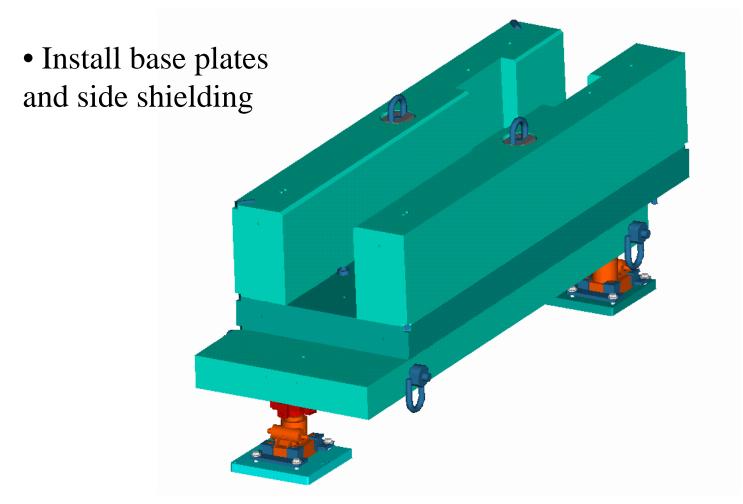






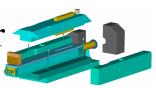
TAN Lower and Side Shielding

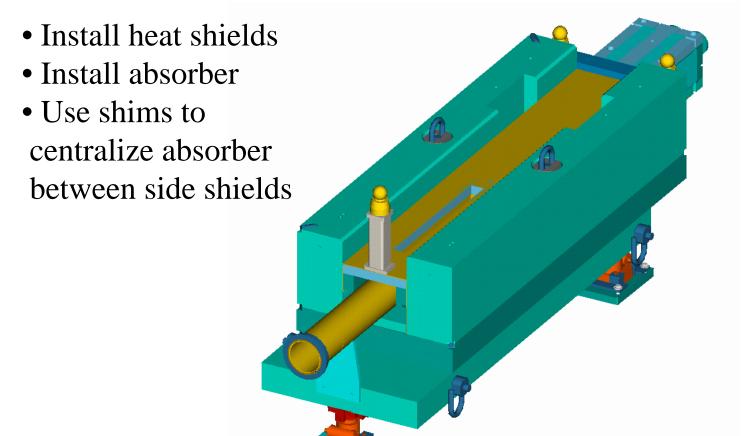






TAN Lower Shielding and Absorber







TAN Assembled

